Index

to Authors, key words in titles and to new taxa and new stratigraphical terms in Volume 118; (R) indicates Review

Acharyya, S. K. Alkaline *v* calc-alkaline Late Palaeozoic volcanism in the Himalayas and some aspects on Himalayan geotectonics, 421
Adighije, C. I. Gravity study of Lower Benue Trough, Nigeria, 59
Afghanistan (R), 433
Albian, nannofossils, Tunisia, 161
Al-Kadhi, A., Hancock, P. L. & Al-Khatieb, S. O. Structural and photogeological evidence for the boundaries to an East Arabian block, 533
Allen, P. M. A new occurrence of possible Tertiary deposits in south-western Dyfed, 561
Ammonite, Coniacian, 557
Antarctic Peninsula, 139
Antiarch Biostratigraphy, 69
Appin Group, 477
Aquatic Organisms (R), 572
Archaean (R), 431
Archaeology (R), 106
Archeocyathid (R), 326
Arctic, Archipelago (R), 218; Canada (R), 219
Arc-trench system, 139
Ash-fall, 83
Atlantic-type continental margins (R), 332
Atmospheric Phenomena (R), 218
Au mineralization, 545
Bahat, Dov. Certain mechanical aspects in comparative continental rifting with a special reference to the Baikal rift, 271
Baikal rift, 271
Bailey, D. K. Bowen and the Post-Impressionists, 311
Baker, S. J. The graptolite biostratigraphy of a Llandovery outlier near Llanystumdwy, Gwynedd, North Wales, 355
Banham, P. H., Hopper, F. M. W. & Jackson, J. B. The Gillbrea Nappe in the Skiddaw Group, Cockermouth, Cumbria, England, 509
Barrington, 463
'Basalt Fingers', 251
Basaltic igneous activity, 27
Bassett, M. G. The Ordovician brachiopods of Cornwall, 647
Bathonian, 415
Bathurst Island (R), 218
Benton, M. J. & Walker, A. D. The use of flexible synthetic rubbers for casts of complex fossils from natural moulds, 551
Benue Trough, Lower, 59
Bergamia artemis sp. nov., 630
Berkshire, 175

Bhat, M. I., Zainuddin, S. M. & Rais, A. Panjal Trap chemistry and the birth of Tethys, 367
Bideford, geology of (R), 574
Biosaline (R), 713
Biostratigraphy, 355; brachiopod, 385; (R), 324
Blackbourn, G. A. Correlation of Old Red Sandstone (Devonian) outliers in the Northern Highlands of Scotland, 409
Blårevbreen Sandstone Member, 231
Blue Anchor Formation, 377
Bohemilla tridens sp. nov., 638
Bowen, 311
Brachiopod biostratigraphy, 385
Brachiopods, British (R), 213; ordovician, 647
Bradbury, H. J. & Graham, C. M. Cambrian and late Precambrian basaltic igneous activity in the Scottish Dalradian: a review, 27
Bradworthy (R), 105
Britain, South-west, 377
British Columbia (R), 713
Bude (R), 105
Butler, D. E. Marine faunas from concealed Devonian rocks of southern England and their reflection of the Frasnian transgression, 679
Calabria, 539
Calver, M. A. Palaeozoic studies in honour of Sir James Stubblefield, 581
Cambrian, Lower (R), 326; Scottish, 27
Cambridgeshire, 463; Great Paxton Borehole, 623
Cambro-Ordovician, 225
Campanian, phosphatic chalks and hardgrounds, 175
Carboniferous, 97; lower, 703
Cenomanian nannofossils, Tunisia, 161
Chalk, 557
Chalky till, 463
Chemical Heterogeneity (R), 329
China, Devonian, 69; 113; 385; Precambrian, 201; Primitive Man (R), 441
Chulmleigh (R), 105
Cirencester, 415
Coal ball, 307
Cockermouth, 509
Colley, H. & Hindle, W. H. An oceanic volcano in an island arc setting – Seatura Volcano, Fiji, 1
Columnar joints, 251
Coniacian, ammonite, 557; phosphatic chalks and hardgrounds, 175
Connell, E. R. & Hoare, P. G. The chalky till at Barrington, near Cambridge, and its connection with other Quaternary deposits in southern Cambridgeshire and adjoining areas, 463
Continental margins, 539; (R), 322
Continental rifting, 271
Cope, J. C. W. The Swansea Valley Fault, Wales, 309
Cornwall, Brachiopods, 647; Lizard peridotite, 491; Lower Devonian, 517
Correlation (R), 218

Cretaceous, England, 175; Greenland, 337; nannofossils, Tunisia, 161; (R), 107
Cryptogenesis, 591
Cu mineralization, 545
Cyclopygacea, 603
Dalradian, 27; 477
Dalziel, I. W. D., Elliot, D. H., Jones, D. L., Thomson, J. W., Thomson, M. R. A., Wells, N. A. & Zinsmeister, W. J. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15
Dartmoor, 77
Dartmouth Beds, 517
Darwin, Charles (R), 325
Deep Drilling (R), 322
Deltaic Sand Bodies (R), 327
Devonian, China, 69; 113; 385; Ellesmere Island (R), 218; England, 679; Lower, 517; Scotland, 409
Diagenesis (R), 319; early (R), 330
Dicellograptus, mode of life, 401
Dinantian, 703
Dipoles (R), 714
Directional data, 39
District of Mackenzie (R), 101
Ditlovtoppen Dolomite Member, 234
Doushantuonema peatii sp. nov., 204
Duyverman, H. J. & Roobol, M. J. Gas pipes in Eocambrian volcanic breccias, 265
Dyfed, 561
Earth (R), 220; (R), 320; Age of (R), 221
Earthquake Prediction (R), 321
Earthquakes (R), 432
Earth Science, dictionary (R), 324
Eastern Himalaya (R), 217
Egypt, 545
Ellesmere Island (R), 218
Elliot, D. H., Dalziel, I. W. D., Jones, D. L., Thomson, J. W., Thomson, M. R. A., Wells, N. A. & Zinsmeister, W. J. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15
Energy, alternative (R), 215; clean (R), 215
England, Devonian, 679; metamorphic rocks, 297; phosphatic chalks, 175; Skiddaw Group, 509; Tremadoc, 615
Eocambrian, 265
Estuaries (R), 435
Estuarine processes (R), 714
Ethiopia, geological map (R), 322
Europe, (R), 104; geology (R), 575
Evans, K. M. A marine fauna from the Dartmouth Beds (Lower Devonian) of Cornwall, 517
Evitt, W. R. & Tripp, R. P. Silicified Lichidae (Trilobita) from the Middle Ordovician of Virginia, 665
Federal Republic of Germany (R), 434
Fieldwork, (R), 434

Fiji, 1
Fjord Oceanography (R), 713
Forest Marble, 415
Fossils, casts, 551; (R), 103
Fossil Hunters (R), 571
Frasnian, 679
Gabbro, 525
Gale, A. S. & Woodroof, P. B. A Coniacian ammonite from the 'Top Rock' in the Chalk of Kent, 557
Gas pipes, 265
Geochemical, 545
Geochemistry, Isotope (R), 214; (R), 209; Scotland, 477
Geological Howlers (R), 715
Geology and Scenery (R), 207
Geology, Atlas (R), 436; Bradworthy (R), 105; Bude (R),105; Chulmleigh (R), 105; Europe (R), 575; Introduction (R), 320; New Zealand, 567; North of Derby (R), 439; ore (R), 221; (R), 220
Geotectonics, Himalayan, 421
Geothermik (R), 101
Germany, General Geology (R), 434
Gillbrea Nappe, 509
Gomez, B. & Sims, P. C. Overbank deposits of the Narrator Brook, Dartmoor, England, 77
Gondwana, 139
Graham, C. M. & Bradbury, H. J. Cambrian and late Precambrian basaltic igneous activity in the Scottish Dalradian: a review, 27
Graptolite, Llandovery, 355; Tremadoc, 615
Graptolithina, 401
Graptolitic facies, 566
Gravity, Benue Trough, 59
Great Paxton Borehole, Cambridgeshire, 623
Greenland, 337
Groundwater, (R), 208; (R), 442
Guadalcanal (R), 210
Gypsum crystals, 303
Hancock, P. L., Al-Khatieb, S. O. & Al-Kadhi, A. Structural and photogeological evidence for the boundaries to an East Arabian block, 533
Hardgrounds, 175
Harland, W. B. Introducing New Zealand Geology, 567
Hazen, R. M. A Bibliography for Historians of Geology, 425
Hazen Trough (R), 218
Hemiarges turneri rasetti subsp. nov., 666
Higgins, A. C. & Soper, N. J. Cretaceous-Palaeogene sub-basaltic and intrabasaltic sediments of the Kangerdlugssuaq area, Central East Greenland, 337
Highlands, northern, of Scotland, 409
Himalaya, Eastern (R), 217
Himalayas, 421
Hindle, W. H. & Colley, H. An oceanic volcano in an island arc setting – Seatura Volcano, Fiji, 1.

Historians of Geology, 425
Hoare, P. G. & Connell, E. R. The chalky till at Barrington, near Cambridge, and its connection with other Quaternary deposits in Southern Cambridgeshire and adjoining areas, 463
Hojjatzadeh, M. Mid-Cretaceous (Albian-Cenomanian) calcareous nannofossils from Pont du Fahs (northern Tunisia), 161
Holland, J. G., Lambert, R. St J. & Winchester, J. A. Comparative geochemistry of pelites from the Moinian and Appin Group (Dalradian) of Scotland, 477
Holmes, J. & Scott, A. C. A note on the occurrence of marine animal remains in a Lancashire coal ball (Westphalian A), 307
Hopper, F. M. W., Banham, P. H. & Jackson, J. B. The Gillbrea Nappe in the Skiddaw Group, Cockermouth, Cumbria, England, 509
Hou, H.-F. Devonian brachiopod biostratigraphy of China, 385
Hou, H.-F., Yang, S.-P. & P'an, K. The Devonian System in China, 113
Howlers, Geological (R), 715
Hubei, 201
Hughes, C. P. & Rushton, A. W. A. The Ordovician trilobite fauna of the Great Paxton Borehole, Cambridgeshire, 623
Human Ecology (R), 212
Humphry Davy (R), 331
Hydrography, Estuarine (R), 207
Hydrology (R), 442
Hydrothermal Ore (R), 209
Idaho (R), 332
Igneous rocks, 449
Indian lamprophyres, 393
Inkohlung (R), 101
Intrabasaltic sediments, 337
Iran, 49
Island arc, 1
Isotope Geochemistry (R), 214
Italy, southern, 539
Jackson, J. B. The Gillbrea Nappe in the Skiddaw Group, Cockermouth, Cumbria, England, 509
James, D. M. D. Petrographic evidence bearing on plate tectonics of the Upper Ordovician Welsh Basin, 95
Jarvis, I. & Woodroof, P. The phosphatic chalks and hardgrounds of Boxford and Winterbourne, Berkshire – two tectonically controlled facies in the late Coniacian to early Campanian (Cretaceous) of southern England, 175
Johnson, M. R. W. The erosion factor in the emplacement of the Keystone thrust sheet (South East Nevada) across a land surface, 501
Jones, D. L., Dalziel, I. W. D., Elliot, D. H., Thomson, J. W., Thomson, M. R. A., Wells, N. A. & Zinsmeister, W. J. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15
Kangerdlugssuaq, 337
Kantha, L. H. 'Basalt fingers' – origin of columnar joints, 251
Kent, 557; coalfield, 703
Keystone thrust sheet, 501
Kiaerograptus? quasimodo sp. nov., 616

Labrador, Precambrian (R), 219
Lambert, R. St J., Winchester, J. A. & Holland, J. G. Comparative geochemistry of pelites from the Moinian and Appin Group (Dalradian) of Scotland, 477
Lamprophyres, Indian, 393
Lancashire, 307
Lancaster Aulacogen (R), 219
Lateglacial (R), 104
Leitch, E. C. Quartz-albite rocks of ash-fall origin, 83
Lichidae, Trilobita, 665
Lilleshall, Shropshire, 699
Lizard peridotite, 491
Llandovery, 355
Llanystumdwy, 355; Mudstone Formation, 355
Llŷn, 189
Ludlow Series, 566
Lunar, craters (R), 328; Near side, stratigraphy (R),, 715; photogrammetry (R), 211; Remote Sensing (R), 211
Lundy Island, geology (R), 574
Magmatic Processes (R), 443
Magnetic Fields (R), 714
Majidi, B. The ultrabasic lava flows of Mashhad, North East Iran, 49
Mammalian Skull (R), 716
Mammals, Mesozoic (R), 211
Mantle, Chemical Heterogeneity (R), 329
Manuscript Resources, Natural History (R), 444
Mashhad, 49
Mason, R. A trondhjemite vein in the Sulitjelma Gabbro, Norway, and its implications for the age of the Sulitjelma Ophiolite, 525
Mayall, M. J. The Late Triassic Blue Anchor Formation and the initial Rhaetian marine transgression in south-west Britain, 377
Merlinia anxia sp. nov., 637
Mesozoic Mammals (R), 211
Metabasic rocks, 189
Metamorphic rocks, 297
Metamorphism, blueschistic, 539
Microfossil, Sinian, 201
Microfossils, 15
Micropalaeontological, 415
Mineral Deposits (R), 436
Minerals (R), 216; rock-forming (R), 106
Mitchell, M. The age of the Dinantian (Lower Carboniferous) rocks proved beneath the Kent Coalfield, 703
Mitchell, M. & Reynolds, M. J. Early Tournaisian rocks at Lilleshall, Shropshire, 699
Moinian, 477
Morphometric Methods (R), 324
Mueilha – Dungash, 545
Nannofossils, calcareous, 161
Narrator Brook, 77
Natural History, Manuscript Resources (R), 444

Nb mineralization, 545
Neotype, 565
Nevada, 501
Nigeria, 59
Northwest Territories, Precambrian (R), 219
Norway, 525; southern, 281
Nuclear Energy (R), 432
Nuclear Waste (R), 430
Ny Friesland, 225
Oceanic, 1
Oceanography, Fjord (R), 713
Ogygiocaris macrops sp. nov., 635
Oil sands (R), 444
Olaussen, S. Marine incursion in Upper Palaeozoic sedimentary rocks of the Oslo Region, Southern Norway, 281
Old Red Sandstone, Scotland, 409
Ontario (R), 431
Ophiolite, 525
Ordovician, brachiopods, 647; Ellesmere Island (R), 218; Idaho (R), 332; Llŷn & Snowdonia, 189; Middle (R), 101; trilobite, 89, 623; Virginia, 665; Welsh Basin, 95
Ore, Deposits (R), 209; Geology (R), 221
Oscillatoriaceae, 201
Oslo Region, 281
Overbank deposits, 77
Overthrusting, 539
Owens, R. M. The Ordovician proetacean trilobite *Rorringtonia*, 89
Paedomorphosis, 591
Palaeogene, 337
Palaeotectonic, 225
Palaeozoic, 581; late, 421; Upper, 281; Volcanism, 421
Paleoecology (R), 103
Paleozoic (R), 218
Panjal Trap, 367
P'an K. Devonian Antiarch Biostratigraphy of China, 69
P'an K., Yang, S.-P. & Hou, H.-F. The Devonian System in China, 113
Paul, D. K. & Potts, P. J. Rare earth abundances and origin of some Indian lamprophyres, 393
Pelly Mountains (R), 326
Peridotite, Lizard, 491
Petroleum, Migration (R), 327; (R), 216
Phi Kappa Formation (R), 332
Phosphatic chalks, 175
Photogrammetry (R), 211
Physical Geology (R), 209
Piccarreta, G. Deep-rooted overthrusting and blueschistic metamorphism in compressive continental margins. An example from Calabria (Southern Italy), 539
Pioneer Mountains (R), 332
Plants, Ancient (R), 571
Plate tectonics, Welsh Basin, 95

Pont du Fahs, 161
Potts, P. J. & Paul, D. K. Rare earth abundances and origins of some Indian lamprophyres, 393
Precambrian, China, 201; Quebec, Labrador & Northwest Territories (R), 219; Scottish, 27
Price, D. *Tretaspis radialis* Lamont and allied species (Trilobita), 289
Primitive Man, China (R), 441
Proetacean trilobite, 89
Prospectatrix genatenta, 603
Protolloydolithus salax sp.nov., 631
Quadrupoles (R), 714
Quartz-albite rocks, 83
Quaternary, 463
Quebec, Precambrian (R), 219; (R), 431
Rais, A., Bhat, M. I. & Zainuddin, S. M. Panjal Trap chemistry and the birth of Tethys, 367
Rare earth, 393
Red Notebook (R), 325
Remote Sensing, Lunar (R), 211; (R), 438
Resources (R), 713
Retepora nodulosa, 565
Reynolds, M. J. & Mitchell, M. Early Tournaisian rocks at Lilleshall, Shropshire, 699
Rhaetian, 377
Roberts, B. Low grade and very low grade regional metabasic Ordovician rocks of Llŷn and Snowdonia, Gwynedd, North Wales, 189
Robinson, D. Metamorphic rocks of an intermediate facies series juxtaposed at the Start boundary, southwest England, 297
Rock, N. M. S. How should igneous rocks be grouped?, 449
Rocks, metamorphic (R), 217
Roobol, M. J. & Duyverman, H. J. Gas pipes in Eocambrian volcanic breccias, 265
Rorringtonia, 89
Rorringtonia kennedyi sp. nov., 91
Rothstein, A. T. V. The primary crescumulates of the Lizard peridotite, Cornwall, 491
Rushton, A. W. A. A polymorphic graptolite from concealed Tremadoc rocks of England, 615
Rushton, A. W. A. & Hughes, C. P. The Ordovician trilobite fauna of the Great Paxton Borehole, Cambridgeshire, 623
Rydon Member, 377
Sand grains, 303
Scenery, volcanic (R), 437
Schalidomorthis stubblefieldi sp. nov., 650
Scotia Ridge, 15
Scotland, geochemistry, 477; Highlands, 409; (R), 207
Scott, A. C. & Holmes, J. A note on the occurence of marine animal remains in a Lancashire coal ball (Westphalian A), 307
Seatura Volcano, 1
Sedimentary rocks, 281; (R), 319
Sedimentation, estuarine (R), 207
Sediments (R), 319
Segmentagnostus stubblefieldi sp. nov., 627

Seismicity patterns (R), 321
Seismology (R), 208
Shakesby, R. A. The application of trend surface analysis to directional data, 39
Shearman, D. J. Displacement of sand grains in sandy gypsum crystals, 303
Shear Zones (R), 444
Shropshire, Lilleshall, 699
Silurian, Idaho (R), 332
Sims, P. C. & Gomez, B. Overbank deposits of the Narrator Brook, Dartmoor, England, 77
Sinian, 201
Skeletal growth (R), 572
Skiddaw Group, 509
Smellie, J. L. A complete arc-trench system recognized in Gondwana sequences of the Antarctic Peninsula region, 139
Sn mineralization, 545
Snowdonia, 189
Solent Estuarine System (R), 438
Soliman, M. M. Geochemical surveys for Sn, Nb, Cu and Au mineralization, Mueilha-Dungash area, Southeastern Desert, Egypt, 545
Solomon Islands (R), 210
Somalia, geological map (R), 322
Soper, N. J. & Higgins, A. C. Cretaceous-Palaeogene sub-basaltic and intrabasaltic sediments of the Kangerdlugssuaq area, central east Greenland, 337
South Orkney Islands, 15
South Wales, 97
Spitsbergen, 225
Start boundary, 297
Stratigraphy, Lunar near side (R), 715; (R), 218
Stromatolite, subaerial, 97
Stubblefield, Sir James, 581
Sub-basaltic sediments, 337
Sulitjelma Gabbro, ophiolite, 525
Swansea Valley Fault, 309
Swett, K. Cambro-Ordovician strata in Ny Friesland, Spitsbergen and their palaeotectonic significance, 225
Synthetic rubbers, 551
Taphonomy (R), 103
Tavener-Smith, R. The neotype of *Retepora nodulosa* Phillips, 1836, 565
Tertiary, 561
Tethys, 367
Thomson, J. W., Dalziel, I. W. D., Elliot, D. H. , Jones, D. L., Thomson, M. R. A., Wells, N. A. & Zinsmeister, W. J. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15
Timmins-Kirkland Lake-Noranda (R), 431
Topiggane Shale Member, 232
Top rock, 557
Tournaisian, 699
Trail Creek Formations (R), 332
Tremadoc, 615
Trend surface analysis, 39

Tre-Nichol Formation, 561
Tretaspis, *caritus* sp. nov., 292; *radialis*, 289
Triassic, 15; 377
Trilobita, 289; Lichidae, 665
Trilobite, Ordovician, 623; *Rorringtonia*, 89; Zonation (R), 101
Trilobites, 591
Trinucleus bicallis sp. nov., 628
Tripp, R. P. & Evitt, W. R. Silicified Lichidae (Trilobita) from the middle Ordovician of Virginia, 665
Trondhjemite, 525
Tunisia, 161
Ultrabasic lava flows, 49
Uranium, Deposits (R), 429; Supply (R), 429; Nuclear Energy (R), 432
Virginia, Ordovician, 665
Volcanic, Activity (R), 212; breccias, 265; scenery (R), 437
Volcanism, Palaeozoic, 421
Wales, 189; 309; North, 355
Walker, A. D. & Benton, M. J. The use of flexible synthetic rubbers for casts of complex fossils from natural moulds, 551
Ware, M. & Windle, T. M. F. Micropalaeontological evidence for land near Cirencester, England, in Forest Marble (Bathonian) times: a preliminary account, 415
Wells, N. A., Dalziel, I. D., Elliot, D. H., Jones, D. L., Thomson, J. W., Thomson, M. R. A. & Zinsmeister, W. J. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15
Welsh Basin, 95
Westphalian A, 307
Wetland processes (R), 714
White, D. E. The base of the Ludlow Series in the graptolitic facies, 566
Whittington, H. B. Paedomorphosis and cryptogenesis in trilobites, 591
Williams, S. H. Form and mode of life of *Dicellograptus* (Graptolithina), 401
Williton Member, 379
Winchester, J. A., Lambert, R. St J. & Holland, J. G. Comparative geochemistry of pelites from the Moinian and Appin Group (Dalradian) of Scotland, 477
Windle, T. M. F. & Ware, M. Micropalaeontological evidence for land near Cirencester, England, in Forest Marble (Bathonian) times: a preliminary account, 415
Woodroof, P. B. & Gale, A. S. A Coniacian ammonite from the 'Top Rock' in the Chalk of Kent, 557
Woodroof, P. B. & Jarvis, I. The phosphatic chalks and hardgrounds of Boxford and Winterbourne, Berkshire – two tectonically controlled facies in the late Coniacian to early Campanian (Cretaceous) of southern England, 175
Wright, V. P. A subaerial stromatolite from the Lower Carboniferous of South Wales, 97
Yang, S.-P., P'an, K. & Hou, H.-F. The Devonian System in China, 113
Yukon (R), 326
Zainuddin, S. M., Bhat, M. I. & Rais, A. Panjal Trap chemistry and the birth of Tethys, 367
Zhang. Z. A new Oscillatoriaceae-like filamentous microfossil from the Sinian (late Precambrian) of western Hubei Province, China, 201
Zinsmeister, W. J., Dalziel, I. W. D., Elliot, D. H., Jones, D. L., Thomson, J. W., Thomson, M. R. A. & Wells, N. A. The geological significance of some Triassic microfossils from the South Orkney Islands, Scotia Ridge, 15